

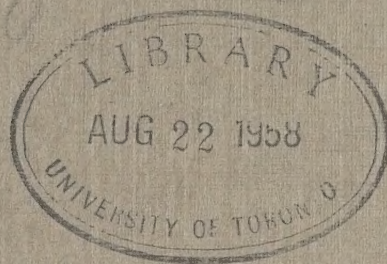
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Ontario Hydro-Electric Inquiry
Commission, 1920-1927

COPY FOR MR. J. ALLAN ROSS

Secretary's report



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HYDRO-ELECTRIC INQUIRY COMMISSION

GENERAL REPORT

BONNECHERE RIVER STORAGE SYSTEM

JOSEPH H. W. BOWER
SECRETARY

Julius



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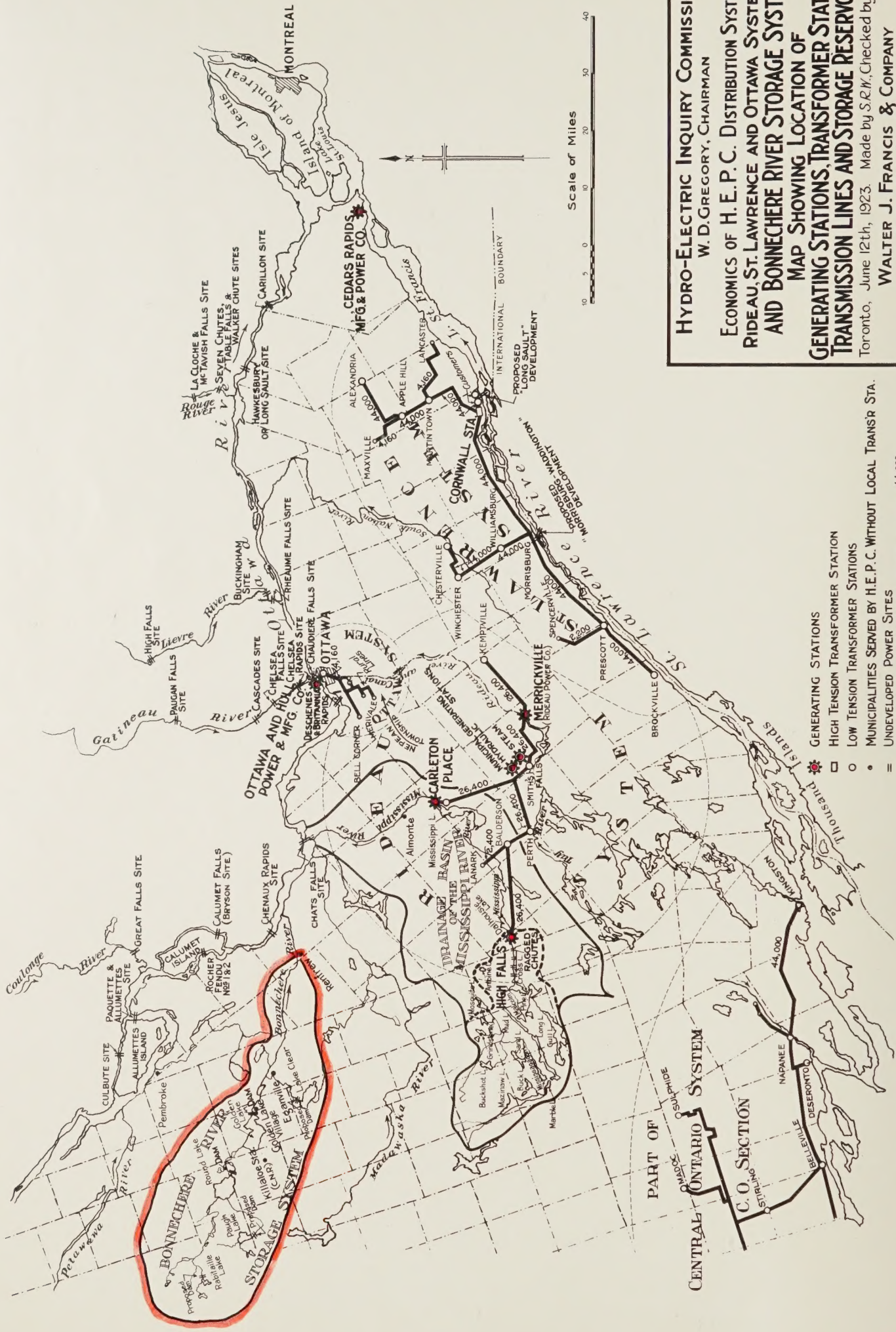
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BONNECHERE RIVER STORAGE SYSTEM

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FOURTH EDITION 1914

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HYDRO-ELECTRIC INQUIRY COMMISSION
W. D. GREGORY, CHAIRMAN

**ECONOMICS OF H. E. P. C. DISTRIBUTION SYSTEMS,
 RIDEAU, ST. LAWRENCE AND OTTAWA SYSTEMS,
 AND BONNECHERE RIVER STORAGE SYSTEM**

**MAP SHOWING LOCATION OF
 GENERATING STATIONS, TRANSFORMER STATIONS,
 TRANSMISSION LINES AND STORAGE RESERVOIRS**

Toronto, June 12th, 1923. Made by S.R.W. Checked by *Edw.*
WALTER J. FRANCIS & COMPANY
 CONSULTING ENGINEERS

GENERATING STATIONS
 * HIGH TENSION TRANSFORMER STATIONS
 □ LOW TENSION TRANSFORMER STATIONS
 ○ MUNICIPALITIES SERVED BY H.E.P.C. WITHOUT LOCAL TRANS. STA.
 = UNDEVELOPED POWER SITES
 TRANSMISSION LINE VOLTAGE SHOWN THUS 0 44,000

LETTER TO THE HON. MEMBERS OF PARLIAMENT

ON THE

PROPOSED BONAICHERE RIVER STORAGE SYSTEM

1911

1911

THE HON. MEMBERS OF PARLIAMENT

1911

Map Showing Location of

COPY

Bonaichere River Storage System

1911

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1911

1. This map shows the location of
 the various stations and lines of the
 New York City Subway System.
 It is a simplified representation of the
 actual system, and is not intended to be
 used for navigation purposes.
 The map is based on the information
 provided by the New York City Transit
 Authority.
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 actual system, and is not intended to be
 used for navigation purposes.
 The map is based on the information
 provided by the New York City Transit
 Authority.

THE INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED

COPY

INFORMATION IS UNCLASSIFIED

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on the

BONNECHERE RIVER STORAGE SYSTEM

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UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C. 20250

Page

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Letter of Presentation

Historical Section

Final

1. The purpose of this report is to provide a summary of the historical information available for the area described in the title of this report. The information is based on a review of the historical records of the area, and is intended to provide a basis for the development of a historical map of the area.

General Information

2. The area described in the title of this report is located in the State of California, and is bounded by the following coordinates: ...

General Information

Summary

3. The purpose of this report is to provide a summary of the historical information available for the area described in the title of this report. The information is based on a review of the historical records of the area, and is intended to provide a basis for the development of a historical map of the area.

Toronto, Ontario.
August 30th, 1923.

Hydro-Electric Inquiry Commission,
W. D. Gregory, Esq., Chairman,
Toronto, Ontario.

re: General Report - Bonnechere River Storage System

Mr. Chairman and Gentlemen:-

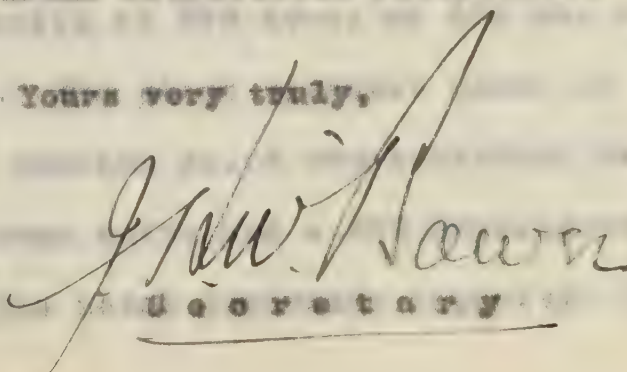
In accordance with your instructions, a general report on the Bonnechere River Storage System has been made along the lines approved of by the Commission on January 2nd. The work has been done under my direct personal supervision as per your instructions.

The **COPY** reports of Messrs. Price, Waterhouse & Company and Messrs. Clarkson, Gordon & Dilworth, together with the report on this system by the Commission's Consulting Engineer, Mr. Walter J. Francis, have been used in the preparation of this report. No public hearing was held in connection with this system.

The report falls naturally into two parts. The first part includes sections entitled "Historical Sketch", "Physical", "General Economics" and "General Relations". These sections are largely a recital of facts. The second part of the report entitled "Summary" is merely intended to direct attention to those points which appear to require special consideration by the Commission.

All figures used in this report have been carefully checked by a representative of Messrs. Price, Waterhouse & Company. Reports forming the basis of this report are appended hereto, and in order to facilitate reference to the documents in question, on the right-hand margin of the report throughout will be found abbreviated references.

Yours very truly,


Secretary

1947-1948

© 2002 Blackwell Science Ltd, *Journal of Internal Medicine* 252: 103–110

The report was approved by the Board of Directors at its meeting held on January 10, 1968.

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The report falls naturally into two parts. The first part contains a detailed description of the "typical", "average" conditions, and "average" conditions. These conditions are usually a result of the fact that the report is based on a survey of the conditions in the various districts. It is a detailed description of the conditions in the various districts. It is a detailed description of the conditions in the various districts. It is a detailed description of the conditions in the various districts.

All figures were in this report have been carefully checked by a representative of Bureau, India, Government, and in order to facilitate comparison of the figures in this report with the figures in the report of the Government of India, the figures have been rounded off to the nearest whole number.

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BONNECHERE RIVER STORAGE SYSTEMHISTORICAL SKETCH

The Bonnechere River Storage System is a water storage system in the basin of the Bonnechere River comprising two storage dams, the first at the foot of Round Lake and the second at the outlet of Golden Lake. These two dams were constructed by the Hydro-Electric Power Commission of Ontario to increase the minimum flow in the Bonnechere River and to improve the supply of water power to the Town of Renfrew, to the Renfrew Paper Company, and to other water power users on the river.

The Town of Renfrew, in Renfrew County, with a population of 5,600 is supplied with electric power, under municipal control, from two hydro-electric plants situated on the Bonnechere River. Station No. 1 was installed in 1911, and an additional turbine and generator were added in 1915, making a total turbine capacity of 600 horse-power, and a total generator capacity of 500 kv-a. or 400 kw. at 80 per cent. power factor. The plant operates under an average head of 37 feet. Station No. 2 was installed in 1901 with one 400 horse-power unit, and a 500 horse-power unit was added in 1907. The total generator capacity

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The town of Newbury, in Newbury County, with a population of 2,400 is supplied with electric power from the Newbury Falls Hydro-Electric Plant situated on the Newbury River. Installed in 1911, and an additional turbine and generator were added in 1914, making a total installed capacity of 1,000 horse-power. The total generator capacity of 800 kw. at 220 v. ac. is for the Newbury Falls plant. The plant operates under an average head of 25 feet. Installed in 1912 with two 400 horse-power units and a 200 horse-power unit was added in 1917. The total generating capacity

in Station No. 2 is 700 kw. This plant was formerly owned by the Kenfrew Power Company, and was acquired by the Municipality of Kenfrew on September 30th, 1917. It operates under an average head of 35 feet.

WJF.
p.4.

At various times the industries in the Town of Kenfrew have suffered from shortage of water and shortage of electric power. This condition became acute in the fall and winter of 1908. As Kenfrew had no rights on the Bonnechere River, except at its proposed power site, an appeal was made to the Commission for relief by the development of artificial storage at the headwaters of the river. Again in the fall of 1910 the level of the Bonnechere River reached such a low stage that the river was practically useless as a source of power, and for some time such industries in the Town of Kenfrew as were not equipped with steam auxiliaries were practically without motive power. The conditions at that time demonstrated conclusively the necessity of providing storage reservoirs to improve the flow characteristics of the river. Negotiations and studies were continued, and in February and March, 1911, a detailed survey of Round Lake was made by the Engineers of the Commission to determine its capacity as a storage reservoir to provide for low water periods in the Bonnechere River.

WJF.
p.5.

It is stated that due to the lack of rainfall records in the Bonnechere watershed, it was impossible to estimate the percentage of run-off with certainty. Records

at Renfrew extending back to 1882 indicated that the mean annual rainfall at that point was about 25 inches. Records for any other points in the watershed were entirely lacking, but on the height of land in the Algonquin Park region the records showed a mean annual rainfall of 40 to 43 inches. In view of this it seemed reasonable to the engineers to assume 30 inches as the measure of the average distribution of rainfall above Golden Lake Village, and 25 inches for the mean annual rainfall on the remainder of the Bonnechere watershed. It was also assumed that the Bonnechere River could deliver a runoff of 33.3 per cent. of the annual rainfall.

WJF.
p.5
& 6.

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On January 9th, 1912, an agreement was executed between the Town of Renfrew and the Commission which provided for the construction of a dam at the outlet of Round Lake. It was agreed that the capital cost of the dam should be borne by the Commission, while the total annual costs including operation and maintenance costs, and interest and sinking fund payments, were to be paid to the Commission by Renfrew. Provision was made for the operation of the dam by Renfrew at the option and under the control of the Commission so as to protect the interests of the property holders on or about the shores of Round Lake and along the Bonnechere River. No Order-in-Council was passed validating this agreement and the legal status of the work has not been discussed herein, but apparently no opposition was offered by the riparian owners at the time. In 1911 the first municipal hydro-electric plant was built, at the second falls, within the town limits.

At last, the following theorem is proved:

For any other points in the watershed were entirely lacking.

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at a minimum set of documents known as a life story kit

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Journal of Interpersonal Violence 28(10)

THE UNIVERSITY OF CHICAGO PRESS

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Submitted for publication, September 10, 1998; accepted, November 10, 1998.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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There is no doubt that the Government is doing its best to protect the public interest.

See page 47 for details of the survey.

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The contract for the construction of the dam at Round Lake, which was constructed in 1911 and 1912, was let on a unit cost basis at an estimated cost of \$5,168.75, but after the work was started a serious geological fault was found, apparently under the location chosen for the sluices, entailing a change in the plans, and it was decided to use sheet piling and rock fill under the sluice foundations. The contractor met with difficulties, and the Commission took over the work, completed the dam and put it into operation at a cost of \$20,292.68.

WJP.
p.6.

When the Commission of the Town of Renfrew, in November, 1915, entered into a contract to supply 900 horsepower to the O'Brien Munitions Company, the need for further regulation of the waters of the Bonnechere River became apparent and Renfrew built a cribwork dam at the outlet of Golden Lake on the Bonnechere River, apparently without authority from the Government. It is stated that owing to the excessively high water in the spring of 1916, a portion of the spillway section had to be blown out.

Negotiations were opened between Renfrew and the Commission for the construction of a dam on Golden Lake, and on October 31st, 1916, an Order-in-Council was passed authorizing the construction of the Golden Lake dam. On April 2nd, 1917, an agreement was entered into between the Town of Renfrew and the Commission, whereby the Commission agreed to build a dam near the outlet of Golden Lake to provide for the storage of

The contract for the construction of the dam

was awarded to the lowest bidder in 1911, and

it was not until 1912 that the dam was completed.

One of the first things that was noticed when the dam

was opened, especially when the first water was let

down, was that the water was very muddy and it was

very difficult to see the bottom of the river.

The water was very muddy and it was very difficult

to see the bottom of the river, and it was very

a cost of \$20,000.00.

When the dam was completed, the town of Haverhill

was very much improved, and the water was very

clean and the water was very good for drinking.

regulation of the water at the dam was very

important and the dam was very much improved.

Since then, the dam has been very much improved

and the water is very clean and the dam is very

important and the dam is very much improved.

of the water is very clean and the dam is very

negotiations were agreed between Haverhill and the dam

company for the construction of a dam in Haverhill, and

the dam was completed in 1912, and the water was very

clean and the water was very good for drinking.

an agreement was entered into between the town of Haverhill

and the dam company, and the dam was very much improved.

and the water is very clean and the dam is very

approximately three feet of water in the lake, and also to provide for the regulated discharge and use thereof. The municipality agreed to pay in monthly instalments to the Commission all operating and maintenance costs, interest charges on the total capital cost of the dam, and an annual sinking fund instalment sufficient to retire the capital cost of the Golden Lake dam in thirty years. Some of the work done by the Town of Renfrew on the dam built in 1915 was utilized in building the new dam, and an allowance was made to the town on this account.

It was further agreed that any part of the operating costs and fixed charges which could be collected from the Renfrew Power Company and other companies which were benefited by the storage should be taken from the amount levied on the Town of Renfrew, but up to the present time the town is the only power user on the river which has paid any of the costs, with the exception of an amount of \$146.40 charged to the account of E. C. Childerhouse.

The Golden Lake dam was completed in May, 1917, and the operation has been carried on by the Town of Renfrew. Gauge readings were sent to the Hydraulic Department of the Commission. From the fall of 1915 to October, 1919, the Commission took readings of the flow of the Bonnechere River, for the most part at Renfrew. After October, 1919, the gauging work was taken over by the Department of the Interior, Dominion Water Power Branch.

WJP.
p.7
& 8.

PHYSICALCharacter and Extent of the Watershed

The watershed of the Bonnechere River above Renfrew has an area of about 910 square miles, the headwaters being within the limits of Algonquin Park. The watershed contains a considerable number of lakes, the most important being Golden Lake, Round Lake, Clear Lake, Paugh Lake and Robitaille Lake, named in order of magnitude.

Below the Township of Richards the rock formation is overlaid with sand and sandy loam, with an occasional rock outcrop, and the country is cleared and settled. Above the Township of Richards the rock outcrop predominates, and the country is wild and unsettled. Golden, Round and Clear Lakes are in the settled district, and Paugh and Robitaille Lakes are in the upper and unsettled portion of the watershed, which at one time was covered with white pine. The pine has been either cut or burnt, and the district is becoming reforested with hard wood and a considerable quantity of second growth red and white pine. As the reforestation continues the ground storage capacity of the watershed will increase and the natural regulation of flow will be improved.

WJF.
p.8
& 9.

1912

REPORT OF THE COMMISSIONER OF THE BUREAU OF LANDS

The purpose of the Bureau of Lands is to

manage the public lands of the United States, and to

sell them at public auction, or to lease them for

the purpose of mining, or for other purposes.

The Bureau of Lands is organized as follows:

1. The Commissioner of the Bureau of Lands.

2. The Assistant Commissioner of the Bureau of Lands.

3. The Surveyor General of the Bureau of Lands.

4. The Register of the Bureau of Lands.

5. The Receiver of the Bureau of Lands.

6. The Inspector of the Bureau of Lands.

7. The Auditor of the Bureau of Lands.

8. The Engineer of the Bureau of Lands.

9. The Forester of the Bureau of Lands.

10. The Game Warden of the Bureau of Lands.

11. The Fish and Game Commissioner of the Bureau of Lands.

12. The Game Warden of the Bureau of Lands.

13. The Fish and Game Commissioner of the Bureau of Lands.

14. The Game Warden of the Bureau of Lands.

15. The Fish and Game Commissioner of the Bureau of Lands.

16. The Game Warden of the Bureau of Lands.

Precipitation and Run-off

The average yearly precipitation for the whole watershed over the seven years from October, 1915, to September, 1922, is estimated from the records to be 29.98 inches, or approximately 30 inches, and the average yearly run-off is estimated to be approximately 10 inches, or one-third of the precipitation. Precipitation was high in the fall of 1921, but it was followed by low precipitation during January, February and March, 1922. The rainfall was normal in the period from April to August, 1922, with light rainfall and snowfall from September, 1922, to March, 1923, and moderate precipitation in April, 1923. There was considerable water in storage as at December, 1922, but subsequently most of the precipitation was in the form of snow, rendering it necessary to draw on storage. Records of storage are not available after 1922, and run-off records are complete only to September, 1922.

WJF.
p.9.Estimated Storage Capacity

The storage capacity of the Bonnechere watershed is herein considered as confined to the five lakes mentioned above. The following table gives the area of the catchment basin, the lake area, available run-off, storage draft, and storage capacity for the five lakes. The storage draft on Golden Lake and on Round Lake has been determined by inspection and survey, but on the other

three lakes it has been estimated only. The table is as follows:

Lake	Catchment Basin Square Miles	Lake Area Square Miles	Storage Draft Feet	Run-off Millions of Cubic Feet	Storage Capacity - Millions of Cubic Feet
Golden	575	14.6	3	13,350	1,221
Round	403	10.8	6	9,359	1,808
Paugh	31	2.7	10	720	750
Robitaille	13	0.55	15	302	230
Clear	41	6.8	5	791	948

WJP.
p.11

From these figures it would appear that the estimated storage draft on Paugh and Clear Lakes would provide storage capacity more than sufficient to conserve the entire run-off of their respective watersheds, while in the case of Round and Golden Lakes there would be a large surplus run-off after their storage capacity had been filled.

The watershed of the Bonnechere River above Golden Lake would deliver 13,350 millions of cubic feet per annum on a basis of 30 inches precipitation and 10 inches run-off, and the remainder of the watershed above Renfrew, about 335 square miles, would deliver about 7,800 millions of cubic feet per annum on a basis of 30 inches precipitation and 10 inches available as run-off. The total annual discharge at Renfrew would therefore be 21,150 millions of cubic feet. The total storage capacity as estimated above is 4,821 millions of cubic feet, or about 23 per cent. of the annual run-off. Taking into account the autumn replenish-

When taken it has been estimated only. The table is

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12.8

From these figures it would appear that the evidence

their storage capacity has been filled.
and believe that there is a large surplus now-
of their respective newspapers, while in the case of some
capacity now the situation is somewhat the same-
storage draft on bank and other loans would provide storage

The water level of the Sonoma River above

14,633 million in 1964, or about 15 per cent. 47

ment of storage, the complete reservoir system should be able to control about 40 per cent. of the annual run-off.

The estimated mean annual run-off of the Bonnehere watershed above Renfrew, based on the assumptions made above, would be able to produce an average continuous discharge of about 670 cubic feet per second throughout the year with perfect regulation. With the mean discharge in a very dry year estimated at 75 per cent. of this, the minimum mean discharge would be 500 cubic feet per second, which is equivalent to 0.55 cubic feet per second per square mile of watershed. If the completely developed system could control 40 per cent. of the annual run-off, between 400 and 450 cubic feet per second might be considered a reasonable estimate of the ordinary regulated flow at Renfrew.

Considering the Round Lake storage by itself, a dam with 6-foot draft on the sills could deliver 175 cubic feet per second for 120 days from storage alone. This would give a minimum of 225 cubic feet per second at Renfrew, if the extreme natural low water discharge at that point were assumed to be not greater than 50 cubic feet per second. The uncontrolled surplus run-off could probably be depended upon to hold this minimum for the remaining eight months of the year.

The joint effect of the Round Lake and Golden Lake storage could be sufficient to produce a continuous

which is situated in the center of the island, and is the only one of its kind in the world. It is a very small island, but it is very important for the people who live there. It is a very beautiful island, and it is a very interesting place to visit. It is a very good place to live, and it is a very good place to work. It is a very good place to study, and it is a very good place to play. It is a very good place to be, and it is a very good place to stay. It is a very good place to go, and it is a very good place to see. It is a very good place to be, and it is a very good place to stay. It is a very good place to go, and it is a very good place to see.

THESE RESULTS ARE NOT TO BE USED FOR ANY OTHER PURPOSES

There would be also no power to force individuals who

... of about 870 cubic feet per second throughout the ...

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1. The first step is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the situation.

1940-1941

...continued to work for the same...

an with 50-60% on the side which deliver 170 units

There is a minimum of 250 words that you should be able to write in 15 minutes. This is a minimum of 250 words that you should be able to write in 15 minutes.

It is not known how many of the above mentioned persons are still living.

and in this situation the Commission is not in a position to make any recommendation.

2000

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discharge of 250 cubic feet per second for 140 days, leaving an uncontrolled surplus discharge of 16,700 millions of cubic feet to hold this minimum for the remaining 225 days of the year.

WJF.
p.11
&12

Description of the Dams

(a) Round Lake Dam

Round Lake dam is located at the outlet of Round Lake, about six miles from Killaloe station on the Ottawa-Parry Sound branch of the Grand Trunk Railway.

The dam is constructed as follows: A concrete core wall 2 feet thick and about 90 feet long with its top at Elevation 112.0 is supported by a rock fill on each side. This is followed by a concrete gravity spillway section about 91 feet long, with top at Elevation 106.5, having a slight angle downstream at its middle point. Beyond the spillway, a log chute 6 feet wide is provided with its sill at Elevation 104.0, followed by three sluices 14 feet wide, separated by piers 4 feet wide carried well down stream. The sluices are estimated to have a discharge capacity of 3,800 cubic feet per second. The sills of the sluices are at Elevation 99.0, and the tops of the piers at Elevation 112.0. The piers have grooves for stop-logs, 8 inches square, and operated by hand winches. The sluices and the gravity spillway section are built on a concrete mat about 2 feet thick founded on a cellular type of construction composed of Wakefield sheet piling walls and rockfill. From the sluices the concrete

Statement of the facts that have been ascertained by the Commission in its investigation of the proposed project.

That to date this Commission has not received any information from the projectors as to the progress of the project.

W.L.
p.11
212

Year.

DESCRIPTION OF THE PROJECT

(a) General Description

General Description of the project is located at the outlet of the lake, about six miles from the outlet of the lake, about six miles from the outlet of the lake, about six miles from the outlet of the lake.

The dam is constructed as follows: A concrete core

will be built with a crest length of 100 feet long with the top at

elevation 115.0 is supported by a rock fill on each side.

The dam is founded on a concrete gravity spillway section about

61 feet long, with top at elevation 115.0, having a slight

uplift foundation on the right side, beyond the spillway.

A top section of the dam is provided with a spillway section

100.0, followed by three sections of 100 feet each, separated by

gates & crest with spillway wall about 100 feet. The spillway

section is built on a concrete gravity section of 100 feet long

on each side. The spillway section is at elevation 115.0.

and the spillway section is at elevation 115.0. The spillway

section is about 100 feet long, 5 feet wide, and supported

by rock foundation. The spillway section is about 100 feet long

and the spillway section is at elevation 115.0. The spillway

section is about 100 feet long, 5 feet wide, and supported

core wall extends about 50 feet to the ground surface at Elevation 112.0 on the opposite shore, with rockfill above and below.

The normal level of the water in the lake is given as Elevation 106.0 and the minimum water level as Elevation 102.0. The zero of the lake gauge is Elevation 101.0. The ground around the dam site is comparatively flat.

WJF.
p.13

(b) Golden Lake Dam

A cribwork dam was built at the outlet of Golden Lake in 1915 by the Town of Renfrew, but a portion of the spillway section was blown out during the excessively high water in the spring of 1916. In October, 1916, the Hydro-Electric Power Commission of Ontario began construction of the present Golden Lake dam using a portion of the old structure. The structure is timber crib-work, sheeted tight, with five sluices fitted with wooden stop-logs. The sluices are $17\frac{1}{2}$ feet wide with planked floors, and the average elevation of the sills is at Elevation 44.46. The storage range is from Elevation 50.0 to Elevation 45.0. The zero of the gauges is at Elevation 45.0. It is doubtful if the discharge capacity of the dam is more than 3,000 cubic feet per second.

The dam was completed in May, 1917, at a total cost of \$11,092.81. Repairs costing \$939.06 were made to No.1 sluice in November, 1916.

The lake, which has an area of 14.6 square miles, is situated about ten miles below Round Lake and has a watershed area of 575 square miles tributary to it. The storage is

There will continue about 25 feet to the ground surface at
 elevation 111.5 on the exposed ground, with a small amount of
 water.

The normal level of the water in the lake is 111.5
 elevation 111.5 and the minimum water level is elevation 111.5.
 The area of the lake is 111.5. The ground surface
 the dam site is approximately 111.5.

(b) Dam Design

A concrete dam was built at the outlet of the lake in
 1915 by the Town of Montpelier, but a portion of the spillway
 section was blown out during the exceptionally high water in the
 spring of 1916. In 1916, the Highways Department
 Commission of Ontario began construction of the present dam
 lake and using a portion of the old structure. The structure
 is timber crib-work, masonry walls, with five cribs spaced
 with stone step-laps. The cribs are 17 feet wide with
 highest floors, and the average elevation of the spill is at
 elevation 111.5. The average water in the lake is at
 elevation 111.5. The top of the dam is at elevation 111.5.
 It is located in the drainage capacity of the dam is more
 than 1,000 cubic feet per second.

The dam was completed in 1917, at a total cost of
 \$11,000.00. The dam is located on the road to the lake
 in November, 1916.

The lake, which has an area of 144.5 acres with, is
 situated about 100 miles from the lake and has a watershed

estimated to be about 1,221 millions of cubic feet, corresponding to a rise of level of three feet.

WJF.
p.14

Other Sites for Storage Dams

There are three other sites worthy of consideration in the regulation of the Bonnechere River by storage, namely at Clear, Faugh and Robitaille Lakes. A brief description of these lakes is given on pages 15 - 16 of our Consulting Engineer's Report.

COPY

estimated to be about 2,000,000, and will be of great value in
conducting the work of the Commission.

LIST OF THE CHINESE NAMES

There are three main groups of names in
the collection of the Chinese names of the
Chinese, and the Chinese names of the
Chinese are given on pages 18 - 19 of the Commission

Report's report.

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GENERAL ECONOMICSCapital Investment

The capital investment in the Bonnechere System representing the cost of constructing storage dam at Round and Golden Lakes amounted to \$34,165.74 as at October 31st, 1921, consisting of the following:

Cost of constructing Storage Dam at Round Lake in 1912 and 1913, and of purchasing properties flooded	\$20,292.68
Interest on the above from January 1, 1914, to January 1, 1917, the date of commencement of operations	2,780.25
Together	\$23,072.93
Cost of constructing Storage Dam at Golden Lake	11,092.81
Total	<u>\$34,165.74</u>

P.W.
p.4

Reserve for Renewals

In this connection our Consulting Engineer states as follows:

"No reserve for renewals in respect of the properties of the System has been made in the accounts up to October 31, 1921. Little, if any, expense for renewals should be met with in connection with the Round Lake dam by reason of the substantial nature of its construction, but it would seem advisable to make some provision for the renewal of the Golden Lake dam, as it has already required repairs amounting to \$939.06".

WJF.
p.24

1990-1991 10/1/90

The capital investment in the Government-owned power plant was \$1,000,000. The plant was completed in 1954 and has since been operating at a capacity of 100,000 kilowatts. The plant is owned by the Government of the United States of America.

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at Dallas, Texas
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1992

"No reserve for removal in respect of the properties of the system has been made in the accounts up to October 31, 1931. Little, if any, expense for removals should be met with in connection with the same since they are by reason of the substantial nature of the construction, but it would seem advisable to make some provision for the removal of the system later on if one already existed before mentioned."

Sinking Fund Reserve

The balance of the sinking fund reserve as at October 31st, 1921, amounted to \$3,194.24, comprising the following:

Amounts provided out of Revenue:	
For year and ten months ending October 31st, 1918	\$1,130.65
For year ending October 31st, 1919	616.72
1920	615.76
1921	614.98
Together	\$2,978.11
Interest at 4% per annum for above period	216.13
Balance - October 31st, 1921	\$3,194.24

The sinking fund has been provided on a thirty-year basis with interest at 4%, in accordance with the terms of the Power Commission Act.

P.W.
p.4-5

Reserve for Contingencies

The Commission has not provided any reserve for contingencies in respect of this system, and it would appear that in view of the small risk involved such a reserve is unnecessary.

Accounts Receivable

As at October 31st, 1921, the town of Renfrew stood indebted to the Commission, on the basis of the explanation following, in the amount of \$6,142.92, representing unpaid balances in respect of charges for water power, including operating costs, interest and sinking fund charges on the

capital investment. The composition of this balance and the charges in the account up to October 19, 1922, the date inquired into by our accountants, was as follows:

Originally charged to Town of Renfrew April 30, 1921	681.02	
October 31, 1921	<u>1,492.54</u>	2,173.56
Originally charged on April 30, 1921, to private users but subsequently transferred to Renfrew account		<u>833.77</u>
Together		\$2,707.33
Less - Payment of April 1921 account		<u>681.02</u>
Add - Assessments against private users prior to November 1, 1920 transferred to account of Town of Renfrew (as per details below)		<u>\$2,026.31</u>
		<u>4,116.61</u>
		\$6,142.92
Deduct - Payment December 1921 on account of October 1921 charge		<u>886.72</u>
		\$5,306.20
Add - Charges in respect of total operating costs for fiscal year ending October 31, 1922- Six months ending April 30, 1922		
	\$1,218.77	
Less - Paid on account	<u>681.34</u>	
	\$ 537.43	
Six months ending October 31, 1922	<u>1,273.12</u>	\$1,810.55
Balance as at October 19, 1922		<u>\$7,116.75</u>

P.W.
p.7

The assessments originally made against the private users of water are as follows:

STATEMENT OF
EQUITY

10

Capital Investment - The consolidated net income before tax
for 1951 is the amount of \$1,100,000, less
included item of \$1,000,000 in 1951.

Originally charged to 1951 as
October 31, 1951
\$1,100,000
\$1,100,000
Originally charged to 1951 as
April 30, 1951, in 1951 there was no
amount charged in
1951 as charged

1951 as charged
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1951 as charged
\$1,100,000

THE STATEMENT OF EQUITY IS SUBJECT TO THE REVIEW

OF THE BOARD OF DIRECTORS AND THE STOCKHOLDERS

Consumers	Year ending October 31,			Total
	1918	1919	1920	
Campbell & McNab	\$ -	\$418.88	\$303.83	\$ 722.71
Childerhouse, E.O.	146.40	98.19	71.22	315.81
Dumas, Thomas	146.40	98.19	71.22	315.81
Ferguson, George	146.40	98.19	71.22	315.81
Mills & Weeks	585.60	392.58	284.74	1,262.92
McKee, J. D.	618.53	417.35	299.07	1,334.95
Total	\$1,643.33	\$1,518.38	\$1,101.30	\$4,263.01
Deduct -				
Amount credited to				
account of E. O.				
Childerhouse				
	146.40	-	-	146.40
	\$1,496.93	\$1,518.38	\$1,101.30	
Balance, as per above				
transferred to account				
of Town of Renfrew				
				\$4,116.61

Interest has not as yet been charged against the Town of Renfrew in respect of amounts in arrears. However, our accountants were informed by the Accountant of the Commission that prior to the final closing of the accounts for the fiscal year ending October 31st, 1922, a charge for interest would be made, in accordance with the provisions of the Power Commission Act, in respect of interest chargeable on overdue accounts.

In explanation of the account with the Town of Renfrew, Mr. Clarkson, in his report on the accounts, as at October 31st, 1921, comments as follows:

*For the period January 1, 1917, to October 31, 1920, the Commission made apportionment of all operating charges in respect of the works,- including interest and Sinking Fund - as between six firms and individuals and the Corporation of Renfrew, according to the benefits which each, in the opinion of the Commission, obtained from the use of water from the system. Up to 1921 all of the persons and firms against whom such assessments had been made - excepting the Town of Renfrew - had declined to make payment of such charges. Upon investigation the Commission found that certain of such persons and firms had, for various reasons ceased to operate mills owned by them while the remainder of such persons and firms still refused to share in the costs of operating the Storage System on the ground that they were receiving no greater benefit from the use of the water they were taking than they had obtained prior to the construction of the storage dams. In the circumstances the Commission decided that none of the charges (apportioned as above mentioned) were collectible from such persons and accordingly it assessed the Town of Renfrew, under the contracts entered into in 1914 and 1917, with the operating charges - including interest and Sinking Funds - for the full period to October 31st, 1920; it also charged Renfrew with the whole of the operating costs, interest and Sinking Funds,- amounting to \$2,707.33, for the fiscal year ending October 31st, 1921".

Operating Account

The following is an operating account from the commencement of operations from January 1, 1917, to October 31, 1921:

Particulars	January 1 1917 to October 31 1918	Year ending October 31		
		1919	1920	1921
Revenue				
Assessments originally made against users of water -				
Town of Kenfrew	\$2,896.26	\$1,937.37	\$1,405.16	\$2,707.33
Private users	1,643.33	1,518.38	1,101.30	-
Together	\$4,539.59	\$3,455.75	\$2,506.46	\$2,707.33
Operating Cost				
Fixed Charges	\$ 692.99	\$1,357.61	\$ 411.95	\$ 615.77
	3,846.60	2,098.14	2,094.51	2,091.56
Total Expense	\$4,539.59	\$3,455.75	\$2,506.46	\$2,707.33

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Balance on 1st of each month Nil 1st of 1919 Nil 1st of 1920 Nil 1st of 1921

Percentage of Fixed

Charges to Total Expenses

84.73 60.71 83.56 77.26

P.W.
p.6

It will be observed from the above that the total cost of operation has been charged to the consumers on the system. It may be well to point out in connection with the operating cost of \$1,357.61 for the year ending October 31, 1919, that included therein is an amount of \$939.06 representing expenditures made in connection with repairs to the Golden Lake Dam. As similar repairs do not appear to have been made annually, we have for purposes of comparison eliminated this item and find that the percentage of the interest charges to the total expenses

less extraordinary repairs was 63.3% in 1919, indicating that the total expenses each year are, on a comparative basis, quite uniform and do not, therefore, call for special comment

115 cubic feet per second, which is based on the flow of 1911

POWER DATA

Results Obtained from Storage

The minimum flow of the Bonnechere River prior to regulation by the Round Lake dam is taken as 50 cubic feet per second, being the monthly mean flow for both October and November, 1911, measured at Renfrew.

The regulated flow of the Bonnechere River after the completion of both Round Lake dam and Golden Lake dam is taken as 150 cubic feet per second, which is based on the following low mean monthly flows:

December, 1921	184 cubic feet per second
January, 1922	164 cubic feet per second
February, 1922	146 cubic feet per second
September, 1922	193 cubic feet per second
October, 1922	184 cubic feet per second

These measurements were made at Campbell's farm near Renfrew, where the watershed area is slightly greater than at Renfrew, being 935 square miles, while at Renfrew it is 910 square miles.

Except for the above periods of extreme low water flow between December, 1921, and October, 1922, the minimum regulated flow of the Bonnechere River has been considered to be 215 cubic feet per second at Renfrew. This is less than the

These measurements were made at Kumbhari's farm near
Bhatpur, where the watershed area is slightly greater than at
Bhatpur, being 850 acres instead of 800 acres as at Bhatpur.
The measurements were made at Kumbhari's farm near

TABLE 1

Monthly Discharge of the River

The minimum flow of the river was 100 cfs in 1965 and
1966. The maximum flow was 100 cfs in 1965 and 1966.
The average flow of the river was 100 cfs in 1965 and 1966.
The average flow of the river was 100 cfs in 1965 and 1966.
The average flow of the river was 100 cfs in 1965 and 1966.
The average flow of the river was 100 cfs in 1965 and 1966.

Following are the monthly flows:

October, 1965	100 cfs
November, 1965	100 cfs
December, 1965	100 cfs
January, 1966	100 cfs
February, 1966	100 cfs
March, 1966	100 cfs
April, 1966	100 cfs
May, 1966	100 cfs
June, 1966	100 cfs
July, 1966	100 cfs
August, 1966	100 cfs
September, 1966	100 cfs

These measurements were made at Kumbhari's farm near

Bhatpur, where the watershed area is slightly greater than at
Bhatpur, being 850 acres instead of 800 acres as at Bhatpur.
The measurements were made at Kumbhari's farm near

These measurements were made at Kumbhari's farm near

These measurements were made at Kumbhari's farm near
Bhatpur, where the watershed area is slightly greater than at
Bhatpur, being 850 acres instead of 800 acres as at Bhatpur.
The measurements were made at Kumbhari's farm near

improvement anticipated as a result of the early studies.

Apart from years of unusually small total precipitation the regulated flow of the Bonnechere River has been taken as 215 cubic feet per second, which is based on the following low mean monthly flows after the completion of Golden Lake dam:

August, 1919	.....	219 cubic feet per second
July, 1921	.....	222 cubic feet per second
August, 1921	.....	212 cubic feet per second
October, 1921	.....	213 cubic feet per second

Increase in Power Available at Renfrew

Accepting the figure of 215 cubic feet per second as a reasonable value for the minimum regulated flow of the Bonnechere River, and comparing it with the minimum flow of 50 cubic feet per second before regulation, a considerable gain is evident. Taking the combined head of 72 feet for the two developments in Renfrew and assuming an over-all efficiency of 75 per cent., the increase in the output of the two plants at minimum flow is approximately 1,000 horse-power, or about 6.2 horsepower per cubic foot of water per second. The unregulated minimum flow of 50 cubic feet per second on the same assumption would only give an output of about 300 horse-power. The installed turbine capacity of the two plants is given earlier in our Consulting Engineer's report as 1,700 horse-power, and the generator capacity as 1,100 kilowatts, or about 1,470 horse-power, so that no increase in installed capacity is required to take advantage of the present regulated flow.

WJF.
22-23.

With the present available capacity, it is estimated, from a study of the mass curve, that a regulated minimum flow of 300

Important information is given in the following table.

Approximate values of maximum and minimum flow of the

the following table are given in the following table.

The table gives the values of the flow of the river at the following points.

Some examples of the flow of the river at the following points.

August, 1918	.....	218 cubic feet per second
July, 1921	.....	222 cubic feet per second
August, 1921	.....	212 cubic feet per second
October, 1921	.....	218 cubic feet per second

TABLE 1. - Flow of the river at the following points.

The following table gives the values of the flow of the river at the following points.

Approximate values for the minimum regulated flow of the

the following table are given in the following table.

at the following points are given in the following table.

is given in the following table.

the following table are given in the following table.

at the following points are given in the following table.

at the following points are given in the following table.

at the following points are given in the following table.

regulated minimum flow of 20 cubic feet per second at the same

assumption will give an output of about 100 cubic feet.

The installed capacity of the river at the following points.

in the following table are given in the following table.

the following table are given in the following table.

at the following points are given in the following table.

Advantage of the present regulated flow.

With the present available capacity, it is estimated, from

a study of the past, that a regulated minimum flow of 10

cubic feet per second could have been expected, with the exception of the year 1921 in which the available flow is indicated to be about 227 cubic feet per second. With three additional dams the ordinary regulated flow could probably be maintained at 400 to 450 cubic feet per second for most of the time.

The actual regulated minimum flows obtained in operation have been considerably less than the figures indicated above, being 215 as an average, and a minimum of 150 in the worst year. This, however, is a great improvement over the former unregulated minimum flow of about 50 cubic feet per second. It would seem that some further improvement could be obtained by more efficient use of the present storage capacity.

W.J.P.
p.26

11

which has not been shown to be significant. The
operation of the pump 1011 in which the maximum flow is
indicated to be about 117 cubic feet per second. This value
is slightly above the capacity of the pump 1011 which is
maintained at 115 in the main test but cannot be used at
the time.

The actual required minimum flow is indicated
have been essentially less than the figures indicated above,
being 115 as an average, and a minimum of 100 in the worst case.
This, however, is a great improvement over the former re-
quired minimum flow of about 120 cubic feet per second. It
would seem that the typical improvement could be obtained by
more efficient use of the present storage capacity.

W. J. J.
p. 28

GENERAL RELATIONS

The Historical Sketch (ante) has traced the origin and development of the so-called Bonnechere River Storage System. The word "System" is obviously a misnomer, because the work is not a "System" within the meaning of the Power Commission Act. It was one of the first hydraulic works to be constructed by the Commission and it is the only one of its kind listed among the undertakings of the Commission. Moreover, the relationship between the Commission and the town of Renfrew is not the usual relationship existing between the Commission and the municipalities throughout the Province. The town of Renfrew, the only municipality interested in the work, does not purchase power from the Commission and the Commission does not generate power in its vicinity.

In view of the fact that no public hearing was held there is considerable information which might be very illuminating which is not available for the purpose of this Report. This section of the report is based entirely upon the report of Messrs. Price, Waterhouse & Company dated November 7th, 1922, which includes a memorandum dated October 21st, 1921, reported to have been prepared by the Hon. I. B. Lucas.

As noted elsewhere in this Report, the construction of the first work at Round Lake in 1912 and 1913 does not appear to have been authorized by Order-in-Council, as required by the

... ..

1990-1991: The year "Guns" is described as a milestone, because the

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and the other two are the same as the first two.

— 1972-1973, 1974-1975, 1976-1977, 1978-1979, 1980-1981, 1982-1983, 1984-1985, 1986-1987, 1988-1989, 1990-1991, 1992-1993, 1994-1995, 1996-1997, 1998-1999, 2000-2001, 2002-2003, 2004-2005, 2006-2007, 2008-2009, 2010-2011, 2012-2013, 2014-2015, 2016-2017, 2018-2019, 2020-2021, 2022-2023, 2024-2025, 2026-2027, 2028-2029, 2030-2031, 2032-2033, 2034-2035, 2036-2037, 2038-2039, 2040-2041, 2042-2043, 2044-2045, 2046-2047, 2048-2049, 2050-2051, 2052-2053, 2054-2055, 2056-2057, 2058-2059, 2060-2061, 2062-2063, 2064-2065, 2066-2067, 2068-2069, 2070-2071, 2072-2073, 2074-2075, 2076-2077, 2078-2079, 2080-2081, 2082-2083, 2084-2085, 2086-2087, 2088-2089, 2090-2091, 2092-2093, 2094-2095, 2096-2097, 2098-2099, 2100-2101, 2102-2103, 2104-2105, 2106-2107, 2108-2109, 2110-2111, 2112-2113, 2114-2115, 2116-2117, 2118-2119, 2120-2121, 2122-2123, 2124-2125, 2126-2127, 2128-2129, 2130-2131, 2132-2133, 2134-2135, 2136-2137, 2138-2139, 2140-2141, 2142-2143, 2144-2145, 2146-2147, 2148-2149, 2150-2151, 2152-2153, 2154-2155, 2156-2157, 2158-2159, 2160-2161, 2162-2163, 2164-2165, 2166-2167, 2168-2169, 2170-2171, 2172-2173, 2174-2175, 2176-2177, 2178-2179, 2180-2181, 2182-2183, 2184-2185, 2186-2187, 2188-2189, 2190-2191, 2192-2193, 2194-2195, 2196-2197, 2198-2199, 2200-2201, 2202-2203, 2204-2205, 2206-2207, 2208-2209, 2210-2211, 2212-2213, 2214-2215, 2216-2217, 2218-2219, 2220-2221, 2222-2223, 2224-2225, 2226-2227, 2228-2229, 2230-2231, 2232-2233, 2234-2235, 2236-2237, 2238-2239, 2240-2241, 2242-2243, 2244-2245, 2246-2247, 2248-2249, 2250-2251, 2252-2253, 2254-2255, 2256-2257, 2258-2259, 2260-2261, 2262-2263, 2264-2265, 2266-2267, 2268-2269, 2270-2271, 2272-2273, 2274-2275, 2276-2277, 2278-2279, 2280-2281, 2282-2283, 2284-2285, 2286-2287, 2288-2289, 2290-2291, 2292-2293, 2294-2295, 2296-2297, 2298-2299, 2300-2301, 2302-2303, 2304-2305, 2306-2307, 2308-2309, 2310-2311, 2312-2313, 2314-2315, 2316-2317, 2318-2319, 2320-2321, 2322-2323, 2324-2325, 2326-2327, 2328-2329, 2330-2331, 2332-2333, 2334-2335, 2336-2337, 2338-2339, 2340-2341, 2342-2343, 2344-2345, 2346-2347, 2348-2349, 2350-2351, 2352-2353, 2354-2355, 2356-2357, 2358-2359, 2360-2361, 2362-2363, 2364-2365, 2366-2367, 2368-2369, 2370-2371, 2372-2373, 2374-2375, 2376-2377, 2378-2379, 2380-2381, 2382-2383, 2384-2385, 2386-2387, 2388-2389, 2390-2391, 2392-2393, 2394-2395, 2396-2397, 2398-2399, 2400-2401, 2402-2403, 2404-2405, 2406-2407, 2408-2409, 2410-2411, 2412-2413, 2414-2415, 2416-2417, 2418-2419, 2420-2421, 2422-2423, 2424-2425, 2426-2427, 2428-2429, 2430-2431, 2432-2433, 2434-2435, 2436-2437, 2438-2439, 2440-2441, 2442-2443, 2444-2445, 2446-2447, 2448-2449, 2450-2451, 2452-2453, 2454-2455, 2456-2457, 2458-2459, 2460-2461, 2462-2463, 2464-2465, 2466-2467, 2468-2469, 2470-2471, 2472-2473, 2474-2475, 2476-2477, 2478-2479, 2480-2481, 2482-2483, 2484-2485, 2486-2487, 2488-2489, 2490-2491, 2492-2493, 2494-2495, 2496-2497, 2498-2499, 2500-2501, 2502-2503, 2504-2505, 2506-2507, 2508-2509, 2510-2511, 2512-2513, 2514-2515, 2516-2517, 2518-2519, 2520-2521, 2522-2523, 2524-2525, 2526-2527, 2528-2529, 2530-2531, 2532-2533, 2534-2535, 2536-2537, 2538-2539, 2540-2541, 2542-2543, 2544-2545, 2546-2547, 2548-2549, 2550-2551, 2552-2553, 2554-2555, 2556-2557, 2558-2559, 2560-2561, 2562-2563, 2564-2565, 2566-2567, 2568-2569, 2570-2571, 2572-2573, 2574-2575, 2576-2577, 2578-2579, 2580-2581, 2582-2583, 2584-2585, 2586-2587, 2588-2589, 2590-2591, 2592-2593, 2594-2595, 2596-2597, 2598-2599, 2600-2601, 2602-2603, 2604-2605, 2606-2607, 2608-2609, 2610-2611, 2612-2613, 2614-2615, 2616-2617, 2618-2619, 2620-2621, 2622-2623, 2624-2625, 2626-2627, 2628-2629, 2630-2631, 2632-2633, 2634-2635, 2636-2637, 2638-2639, 2640-2641, 2642-2643, 2644-2645, 2646-2647, 2648-2649, 2650-2651, 2652-2653, 2654-2655, 2656-2657, 2658-2659, 2660-2661, 2662-2663, 2664-2665, 2666-2667, 2668-2669, 2670-2671, 2672-2673, 2674-2675, 2676-2677, 2678-2679, 2680-2681, 2682-2683, 2684-2685, 2686-2687, 2688-2689, 2690-2691, 2692-2693, 2694-2695, 2696-2697, 2698-2699, 2700-2701, 2702-2703, 2704-2705, 2706-2707, 2708-2709, 2710-2711, 2712-2713, 2714-2715,

At the time of the study, the data on the number of days of absence due to illness were not available.

1997-1998

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in view of the fact that no specific handling was held

There is a possibility that the information in the above is not correct.

Shipping is not available for the purpose of this report. This

RECEIVED BY THE DIRECTOR OF THE FBI ON 10-10-68

10-11-1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 26

STATE OF NEW YORK, JUNE, 1964, JOHN J. HENRY, JR., ATTORNEY AT LAW, ALBANY, N.Y.

THE UNIVERSITY OF CHICAGO PRESS

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in the case mentioned by WASH-DC-100-100000, it is reported by the

Act. The construction of the second work at Golden Lake in 1917 and 1918 was authorized by Order-in-Council dated the 31st day of October, 1916. Both works were constructed after the town of Renfrew had entered into agreements with the Commission to pay the costs. The two works cost a total of \$34,165.74, which amount includes interest to commencement of operations.

The Commission has provided a sinking fund on a thirty-year basis, in accordance with the terms of the Power Commission Act.

The relations between the Commission on the one hand and the town of Renfrew and private users of water benefitted by the works on the other hand, resolves itself into an explanation of the balance of account in the amount of \$7,116.75 standing on the books of the Commission as payable by the town of Renfrew in respect of which the town, apparently, admits liability for less than \$800.

With reference to the first work on Round Lake, the Hon. I. B. Lucas says in part as follows:

"Apparently the work was carried out and completed, but no assessments were made against the town of Renfrew until 1916, when from the files I gather that the claim was capitalized up to the end of 1916, and in 1918 the assessment was made on the town of Renfrew, and, I understand, paid."

Inasmuch as no Order-in-Council was passed authorizing the construction of this work, there would appear to be some question as to the right of the town of Renfrew to enter into the agreement or the right of the Commission to enforce it.

The construction of the second work on Golden Lake was duly authorized by Order-in-Council. The agreement pursuant thereto between the town and the Commission defines the manner in which the cost is to be borne. To quote further from the memorandum of the Hon. I. B. Lucas:

"Subsection 'C' of Clause 3 provides 'that the municipality shall be responsible for and repay to the Commission, as herein provided, the whole of the annual charges as above defined, and as they accrue, less such proportion of the total charges as may be agreed to be paid by the Renfrew Power Company, etc. etc.' See agreement - 'and until such time as the Commission has arranged a just assessment charge against other parties using or benefitting from the storage system, in which event the amount so levied shall be deducted from the sum provided to be paid annually by the Municipality'."

COPY
Prior to the 1st of May, 1921, the Commission levied approximately 40% of the total cost of operation and fixed charges against the private users benefitted by the work, the names of whom are set out on page 16 of this Report. None of these assessments appear to have been paid with the exception of an amount of \$146.40 credited to account of E. C. Childerhouse. The balance of approximately 60% was charged against the town of Renfrew in semi-annual bills, all of which appear to have been paid in full by the town. In October 1921, the Hon. I. B. Lucas submitted the memorandum, heretofore referred to, in which he summarized "the difficulties in the way of collection by suit", as follows:

1. No Order-in-Council authorizing the Round Lake improvements.

2. An argument that under sub-section B, Section 3, of the Power Commission Act, the Commission can only levy tolls against municipal corporations or individuals who have entered into contracts in respect to the same. No one appears to have raised this objection, but it occurs to me if we get in Court the point will be raised.

3. We might claim the full amount against Renfrew under their agreement of 2nd April 1917. Section 3 Subsection 2 - 'C' provides 'that Renfrew shall be responsible for and repay to the Commission the whole of the annual charges less such proportion as may be agreed to be paid by the Renfrew Power Company, or in the event of non-agreement, as may be assessed against the Company by the Commission, and until such time as the Commission has arranged a just assessment charge against other parties using or benefitting from the storage system, in which event the amount so levied shall be deducted from the sum to be paid by Renfrew'. Renfrew would no doubt claim that the Board made the assessment against the other users and only billed them for the balance, and that we cannot now bill them for this balance as the agreement states. They are entitled to deduct the amount levied. These would appear to be rather formidable defences by either the power users, or the Town of Renfrew.

At any rate, the Commission apparently decided to levy no further assessments against the power users. The Commission transferred the assessments theretofore levied against such users prior to the 1st of November, 1920, amounting to \$4,116.61, and the assessment of 30th of April, 1921, of \$538.77, a total of \$4,655.38, to the account of the town of Renfrew. Beginning with October, 1921, the Commission has charged the full cost against the town of Renfrew, and in pursuance of this policy, the Commission rendered the town a bill for \$1,492.54 on the 31st of October, 1921, representing the full cost for the six months' period ending on that date.

1. In accordance with the provisions of the Act, the Commission has conducted an investigation into the activities of the Communist Party, U.S.A., and its affiliates, and has determined that the same are engaged in activities which are inimical to the national defense and the national health, safety and interest.

2. It is the policy of the United States Government to prevent the disclosure of information which is so classified that its unauthorized disclosure would be injurious to the national defense. The Commission has determined that the activities of the Communist Party, U.S.A., and its affiliates, are such that the disclosure of information concerning them would be injurious to the national defense. Therefore, the Commission has determined that the activities of the Communist Party, U.S.A., and its affiliates, are such that the disclosure of information concerning them would be injurious to the national defense.

At any time, the Commission is authorized to conduct an investigation into the activities of the Communist Party, U.S.A., and its affiliates, and to determine whether or not the same are engaged in activities which are inimical to the national defense and the national health, safety and interest. The Commission has determined that the activities of the Communist Party, U.S.A., and its affiliates, are such that the disclosure of information concerning them would be injurious to the national defense.

This amount, added to the charge of \$4,650.38, totalled \$5,142.92. During the fiscal year ending October 31st, 1922, the town was billed with an additional \$2,491.89. In December, 1921, the town paid \$836.72 - apparently its computation of its share of the account of \$1,492.54 rendered as of October 31st, 1921, and, during 1922, it paid \$681.34, in respect of the account for the six months' period ending 30th of April, 1922; both of these credit items are shown on the books of the Commission as "on account".

By the Commission, and until such time as the town pays the balance of account against the town of Renfrew as of October 31st, 1922, accordingly, totalled \$7,116.75, which represented the accounts rendered private users prior to the 1st of November, 1920, of \$4,116.61; the account rendered private users on the 30th of April, 1921, of \$533.77 - both transferred to account of the town prior to 31st of October, 1921; the private users' share, presumably, of the accounts rendered the town during the twelve months' period ending 30th April, 1922, of \$1,193.25, and the account rendered 31st of October, 1922, of \$1,273.12 in respect of which no payment was to be expected until the current fiscal year.

The balance of account against the town of Renfrew as of October 31st, 1922, accordingly, totalled \$7,116.75, which represented the accounts rendered private users prior to the 1st of November, 1920, of \$4,116.61; the account rendered private users on the 30th of April, 1921, of \$533.77 - both transferred to account of the town prior to 31st of October, 1921; the private users' share, presumably, of the accounts rendered the town during the twelve months' period ending 30th April, 1922, of \$1,193.25, and the account rendered 31st of October, 1922, of \$1,273.12 in respect of which no payment was to be expected until the current fiscal year.

It is apparent, therefore, that the town of Renfrew paid its accounts in full as rendered prior to 1st of May, 1921; that it has paid amounts which in its opinion represent its share of the accounts rendered since that date; and that it has continuously refused to pay the charges totalling approximately \$6,500, which it contends should be levied against and paid by the so-called private users.

It is impossible to express an opinion as to the liability of the town of Renfrew to pay this balance of account. It is obvious that the argument centres upon the clause of the agreement of April, 1917, which provides that Renfrew "shall be responsible for and repay to the Commission the whole of the annual charges less such proportion as may be agreed to be paid by the Renfrew Power Company or in the event of non-agreement as may be assessed against the company by the Commission, and until such time as the Commission has arranged a just assessment charge against other parties using and benefitting from the storage system, in which event the amount so levied shall be deducted from the sum to be paid by Renfrew". However, it is likewise clear that the town may well claim, as noted by the Hon. I. B. Lucas, that so long as the assessments were levied against the power users, the town of Renfrew could not be held responsible for their payment. Apparently, the Commission has never taken the position that the power users themselves can be required to pay up, because such a position would appear to be untenable in view of the fact that these power users were not parties to any agreement with the Commission, and that the Power Commission Act only authorises the Commission to levy tolls against municipal corporations or individuals who have entered into contracts in respect thereto.

The Auditor, Mr. Guilfoyle, reports that the Commission intends to exact full payment from the town of Renfrew.

It is impossible to express an opinion as to the

possibility of the law of nations to pay this balance of

payments. It is obvious that the amount of interest due the

holders of the government of 1897 would be very large

and that it would be necessary to find some way to raise the

amount of the interest charges for the period of 1897 to 1900

to about \$100,000,000 by the payment of interest on the

event of non-payment of the interest on the principal of the

by the government, and until such time as the government has

received a just amount of interest on the principal of the

and something from the average interest. It is also true that

to be paid to the government of 1897 to 1900 by the

interest. It is obvious that the law of nations will not

be paid by the law. It is also true that the government

will be paid against the power of the law of nations and

not be paid against the law of nations. Apparently, the

government has never taken the position that the power of

the law of nations can be applied to the law of nations and

would expect to be satisfied in view of the fact that the

law of nations is not applied to the law of nations and the

law of nations is not applied to the law of nations and the

law of nations is not applied to the law of nations and the

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law of nations is not applied to the law of nations and the

law of nations is not applied to the law of nations and the

It would seem that, aside from the question of liability as a matter of law concerning which this Commission has not sufficient information to express an opinion, there are very obvious difficulties in the way of securing payment from a municipality which refuses to make payment voluntarily. This Commission is not aware of any case in which the Commission has taken legal proceedings to collect its accounts with municipalities; it is aware, however, that in 1921, the City of Port Arthur refused to pay a higher rate for power from Nipigon than \$20.00 per horse-power notwithstanding accounts rendered by the Commission at considerably higher rates. It is also advised that Port Arthur is still paying \$20.00 for power.

S U M M A R YCapital Investment ("General Economics" - p.13)

Capital investment in the Bonnechere System representing the cost of constructing storage dam at Round and Golden Lakes amounted to \$34,165.74 as at October 31st, 1921.

Reserve for Renewals ("General Economics" - p.13)

No reserve for renewals has been set aside. Our Consulting Engineer states that while little, if any, expense for renewals should be met with in connection with the Round Lake Dam, on account of the substantial nature of its construction, it would seem advisable to make some provision for the renewal of the Golden Lake Dam, as it has already required repairs amounting to over \$900.00.

Sinking Fund Reserve ("General Economics" - p.14)

Sinking fund has been provided on a thirty-year basis with interest at 4% in accordance with the terms of the Power Commission Act.

Reserve for Contingencies ("General Economics" - p.14)

It would appear that in view of the small risk involved such a reserve is unnecessary and the Commission has provided no fund in this respect.

MS-9 - "Unusual Incident" (continued)

Due April 12 and April 26, 2000

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 07-24-2008 BY 60322 UCBAW

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The research should be set up in consultation with the DASH

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NOTES ON THE CONTRIBUTORS

1967-1968

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1941-1942

Division Two has been provisionally set for 1998-1999.

1990-1991

1900-1901

— 21 —

• Super Wild or Super Wild

Accounts Receivable ("General Economics" - p.14)

As at October 31st, 1922, the town of Renfrew stood indebted to the Commission in the amount of \$7,116.73 representing unpaid balances in respect of charges for water-power including operating costs and interest and sinking fund charges on the capital investment. Of this total amount \$4,650.38 represents assessments originally made against private users of water. These charges were not met by the private users and the amount was thereupon transferred to the account of the town of Renfrew by the Commission.

Results of Operation ("General Economics" - p.18)

The operating expenses of the system are relatively small, the fixed charges forming by far the larger part of the yearly cost. The percentage of fixed charges to total expenses, by years, is as follows:

1918	-	54.73%
1919	-	60.71%
1920	-	83.56%
1921	-	77.26%

General Relations ("General Relations" - p. 22-23)

The word "system" as applied to this undertaking may be considered a misnomer because it is not a "system" within the meaning of the Power Commission Act. The Commission does not supply electrical energy to the town of Renfrew or other consumers, but has only constructed works to conserve and regulate water supply. It is the only works of its kind listed among the undertakings of the Commission.

Financial Statement (Form No. 1) - 1934

As of October 31st, 1934, the town of Benton

is indebted to the Commission in the amount of \$7,125.00
representing unpaid balance in respect of salaries for 1934.
The amount of unpaid salaries for 1934 is \$7,125.00.
Of this total amount \$4,500.00 represents salaries for 1934.
The balance of \$2,625.00 represents salaries for 1935.
The amount of the town of Benton is \$7,125.00.

Financial Statement (Form No. 1) - 1935

The amount of the town of Benton is \$7,125.00

representing salaries for 1935.

The amount of the town of Benton is \$7,125.00

representing salaries for 1935.

1934	-	\$4,500.00
1935	-	\$2,625.00
1936	-	\$0.00
1937	-	\$0.00

Financial Statement (Form No. 1) - 1936

The word "salary" as applied to this statement

may be understood as meaning salary in the sense of "wage"

within the meaning of the word "salary" as used in the

act and which is defined as the sum of money or

other consideration, and the word "salary" means in general

and includes every salary. It is the only word or the kind

listed under the heading of the Commission.

The town of Renfrew has paid its accounts in full as rendered prior to the 1st of May, 1921, and it has paid amounts which in its opinion represent its share of the accounts rendered since that date. It has, however, refused to pay charges totalling approximately \$6,500 which it contends should be levied against and paid by private users. Settlement of this matter would appear to be a question for the courts, but it is obvious that there are difficulties in the way of securing payment from a municipality which refuses to make payment voluntarily. As far as we have been able to learn there appears to be no instance in which the Commission has taken legal proceedings to collect its accounts from municipalities refusing to pay. It may be pointed out that in 1921 the city of Fort Arthur refused to pay a higher rate for power from Nipigon than \$20.00 per horse-power, notwithstanding the fact that accounts were rendered by the Commission at considerably higher rates.

